


Bore Hole No	Location		Diameter of Borehole	Date of Commencement	Date of completion
	Latitude	Longitude			
1	9°07'16.4"N	79°29'31.4"E	100mm	10-2-05	11-2-05
Depth below GL	Visual soil description	Depth	Type	No	Penetration (cm)
					15 30 45 60 N
0.0 - 1.5	Grey fine sand	1.5	SPT		2 4 5 - 9
1.5 - 3.0	Grey fine sand	3.0	SPT		3 6 6 - 12
3.0 - 4.5	Grey silty fine sand	4.5	SPT		5 6 7 - 13
4.5 - 6.0	Grey silty fine sand	6.0	SPT		9 16 25 - 41
6.0 - 7.5	Greyish ash coloured silty fine sand	7.5	SPT		12 20 31 - 51
7.5 - 9.0	Grey silty clay with pieces of calcareous sand stone	9.0	SPT		16 10 9 - 19
9.0 - 10.5	Grey silty clay with pieces of calcareous sand stone	10.5	SPT		10 12 12 - 24
10.5 - 12.0	Crushed pieces of rocks and calcareous sand stone	12.0	SPT		For 6cm penetration 50 blows rock from 12m depth below ground level bore hole terminated at 12 m
					15 30 45 60 N
12.0 - 13.5	Silty fine sand	13.5	SPT		5 5 8 - 13
13.5 - 15.0	Fine sand with white colour small stones (may be coral bed)	15.0	SPT		21 30 56 - 86
15.0 - 16.5	Fine silty sand with one or two stones	16.5	SPT		20 40 40 - 86
16.5 - 18.0	Fine silty sand (Greyish in colour)	18.0	SPT		15 For 22cm penetration 100
18.0 - 19.5	Silty fine sand	18.0	SPT		9 12 16 - 28
19.5 - 21.0	Silty fine sand	21.0	SPT		18 19 21 - 40

BOLD: BORE LOG IS BASED ON NOT FINAL REPORT - FEB 2005.

As per the instructions of the client, the bore log is based on the data collected during the field work. The bore log is not a final report and it is subject to change as more data is collected. The bore log is not a final report and it is subject to change as more data is collected.

PROJECT:	SETHUSAMUDRAM SHIP CHANNEL PROJECT - DPR & EVALUATION OF EIA
TITLE:	BORELOG - 1 AT ADAM'S BRIDGE
 L&T-RAMBOLL CONSULTING ENGINEERS LIMITED	


REPORT NO.	RP 004 (A)
PROJECT NO.	C1041202
DATE	28-02-05
FIGURE NO.	FD0511
REV.	0

Bore Hole No	Location		Diameter of Borehole	Date of Commencement	Date of completion
	Latitude	Longitude			
1	9°07'16.4"N	79°29'31.4"E	100mm	10-2-05	11-2-05
Depth below GL	Visual soil description	Depth	Type	No	Penetration (cm)
					15 30 45 60 N
0.0 - 1.5	Grey fine sand	1.5	SPT		2 4 5 - 9
1.5 - 3.0	Grey fine sand	3.0	SPT		3 6 6 - 12
3.0 - 4.5	Grey silty fine sand	4.5	SPT		5 6 7 - 13
4.5 - 6.0	Grey silty fine sand	6.0	SPT		9 16 25 - 41
6.0 - 7.5	Greyish ash coloured silty fine sand	7.5	SPT		12 20 31 - 53
7.5 - 9.0	Grey silty clay with pieces of calcareous sand stone	9.0	SPT		16 10 9 - 19
9.0 - 10.5	Grey silty clay with pieces of calcareous sand stone	10.5	SPT		10 12 12 - 24
10.5 - 12.0	Crushed pieces of rocks and calcareous sand stone	12.0	SPT		For 6cm penetration 50 blows rock from 12m depth below ground level bore hole terminated at 12 m
					15 30 45 60 N
12.0 - 13.5	Silty fine sand	13.5	SPT		5 5 8 - 13
13.5 - 15.0	Fine sand with white colour small stones (may be coral bed)	15.0	SPT		21 30 56 - 86
15.0 - 16.5	Fine silty sand with one or two stones.	16.5	SPT		20 40 46 - 86
16.5 - 18.0	Fine silty sand (Greyish in colour)	18.0	SPT		15 For 22cm penetration 100
18.0 - 19.5	Silty fine sand	18.0	SPT		9 12 16 - 28
19.5 - 21.0	Silty fine sand	21.0	SPT		18 19 21 - 40

NOTE: 100% DATA IS BASED ON MOST RECENT REPORT - YEAR 2005

REPORT NO.	RP 004 (A)	
PROJECT NO.	C1041202	
DATE: 10-02-95		
MADE BY		
FIGURE NO.	REV	
FD0511	0	

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PROJECT: SETHUSAMUDRAM SHIP CHANNEL PROJECT - DPR & EVALUATION OF EIA	
TITLE: BORELOG - 1 AT ADAM'S BRIDGE	
	L&T-RAMBOLL CONSULTING ENGINEERS LIMITED

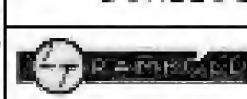
Bore Hole No	Location		Diameter of Borehole	Date of Commencement	Date of completion					
	Latitude	Longitude								
2	7°07'29.50"N	79°29'15.20"E	100mm	10-2-05	11-2-05					
Depth below GL	Visual soil description		Depth	Type	No	Penetration (cm)				
						15	30	45	60	N
0.0 – 1.5	Fine sand		1.5	SPT		14	15	21	-	36
1.5 – 3.0	Grey silty fine sand		3.0	SPT		12	18	28	-	46
3.0 – 4.5	Grey silty fine sand		4.5	SPT		14	23	31	-	54
4.5 – 6.0	Grey silty fine sand		6.0	SPT		18	24	32	-	56
6.0 – 7.5	Grey colour silty fine sand calcareous?		7.5	SPT		22	26	33	-	59
7.5 – 9.0	Grey colour silty fine sand calcareous?		9.0	SPT		20	25	29	-	54
9.0 – 10.5	Grey silty clay with pieces of calcareous sand stone		10.5	SPT		10	7	9	-	16
10.5 – 12.0	Grey silty clay with pieces of calcareous sand stone		12.0	SPT		8	10	11	-	21
12.0 – 13.0	Pieces of rocks and pebbles to calcareous sand stones		13.0	DES		15cm core recovered core				
13.0 – 13.5	Coral bed (White to grey in colour)		13.5	Core		1 – 11 – 1m depth.				
13.5 – 14.5	Silty fine sand (grey to ash colour)		14.5	SPT		13	16	18	-	34
14.5 – 16.0	Silty fine sand (Ash colour)		16.0	SPT		15	19	21	-	40
16.0 – 17.0	Sand stone/coral bed at 1.0 m depth from core recovery = 34cm.		16.0 to 17.0 m from G.L.							
17.0 – 18.0	Fine sand with coral bed / sand stone		50 holes for 10cm penetrations.							
18.0 – 19.5	Fine sand with coral bed / sand stone pieces.		21.32 pieces at 1.5m depth							
19.5 – 21.0	Silty fine sand		21.0	SPT		14	23	26	-	49

NOTE: SOIL DATA IS BASED ON PRELIMINARY REPORT - FEB 2005.

No. 1000 is the project ID number. It is a 4-digit number. The first two digits represent the project number and the last two digits represent the report number. The project number is assigned by the client and the report number is assigned by the consultant. The project number is 1000 and the report number is 0001. The project number is 1000 and the report number is 0001.

PROJECT: SETHUSAMUDRAM SHIP CHANNEL PROJECT - DPR & EVALUATION OF EIA

TITLE: BORELOG - 2 AT ADAM'S BRIDGE



L&T-RAMBØLL
CONSULTING ENGINEERS LIMITED

REPORT NO:
RP 004 (A)

PROJECT NO:
C1041202

DATE: 10-02-05

HAZ: SR

FIGURE NO:
FD0512

REV:
0

Bore Hole No	Location		Diameter of Borehole	Date of Commencement	Date of completion
	Latitude	Longitude			
4	9°7.875'N	79°29.069'E	100mm	7-2-05	8-2-05
Depth below GL	Visual soil description	Depth	Type	No	Penetration (cm)
					15 30 45 60 N
0.00 – 1.5	Medium to fine grained olive grey sand	1.5	SPT	3	6 10 - 16
1.5 – 3.0	Medium to fine grained calcareous sand	3.0	SPT	5	9 13 - 22
3.0 – 4.5	Medium to coarse sand with shell pieces somewhat calcareous	4.5	SPT	8	14 21 - 35
4.5 – 6.0	Medium to fine sand with minor pieces of calcareous rocks	6.0	SPT	12	20 29 - 49
6.0 – 7.5	Medium to fine sand with minor pieces of calcareous rocks	7.5	SPT	12	22 35 - 57
7.5 – 9.0	Medium to fine grained sand, appears calcareous	9.0	SPT	16	30 46 - 76
9.0 – 10.5	Olive grey clay to silt with hard calcareous sand stones with shells	10.5	SPT	3	4 5 - 9
10.5 – 12.0	Olive grey clay to silt with hard calcareous sand stones with shells	12	SPT	6	5 5 - 10
12.0 – 13.5	Semi plastic silty calcareous clay with shell and pieces of sand stone	13.5	SPT	11	13 15 - 26
13.5 – 15.0	Dense calcareous silty sand to sandy silt	15.0	SPT	16	28 27 - 55
15.0 – 16.5	Ash coloured silty sand	16.5	SPT	14	18 20 - 38
16.5 – 18.0	Grey calcareous silty fine sand	18.0	SPT	15	19 24 - 43
18.0 – 19.5	Grey calcareous silty fine sand	19.5	SPT	19	24 26 - 50
19.5 – 21.0	Grey calcareous silty fine sand	21.0	SPT	24	30 36 - 66
Bore hole terminated in a depth of 21 m below GL					

DOI: 10.1002/for

REPORT

RP 004 (A)

PROJECT NO.

C1041202

DATE: 10-03-05

HAF-EM

FIGURE 40

REV.

FD0513

0

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Pub. Title **Li-Ping-Feng, Feng-Hua-Li**

PROJECT: SETHUSAMUDRAM SHIP CHANNEL PROJECT - DPR
& EVALUATION OF FIA

TITLE	BORELOG - 4 AT ADAM'S BRIDGE
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References

**L&T-RAMBØLL
CONSULTING ENGINEERS LIMITED**

Bore Hole No	Location		Depth of Bore hole drilled	Depth of water column	Date of Commencement	Date of completion				
	Latitude	Longitude								
11	79°26'46.00"N	89°09'03.4"E	24m	2.5m	5-2-05	8-2-05				
Depth below GL		Visual soil description	Depth	Type	No	Penetration (cm)				
						10	20	40	60	N
0 - 1.5	Fine to medium calcareous sand		1.50	SPT	9	11	14	-	-	25
1.5 - 3.0	Medium to coarse calcareous sand with dark minerals		3.00	SPT	13	23	27	-	-	50
3.0 - 4.5	Medium to fine calcareous sand		3.00	UDS (slipped) SPT	11	13	17	-	-	30
			4.5							
4.5 - 6.0	Medium grained grey sand with minor sand rock pieces		6.00	SPT	12	16	25	-	-	41
6.0 - 7.5	Olive grey calcareous sand Borehole collapsed and re-drilling carried out		7.5	SPT	16	20	22	-	-	42
7.5 - 9.0	Calcareous fine sand with minor shells		9.0	SPT	18	20	25	-	-	45
9.0 - 10.5	Grey coloured calcareous sand with shell pieces along with rounded pieces of calcareous rock		10.5	SPT	5	4	5	-	-	9
10.5 - 12.5	Olive grey sticky clay with pieces of calcareous sand stones, rounded to pebbly less than 8 mm dia									
12.5 - 13.5	Calcareous sand? With round pebbles of calcareous sand stones		13.5	SPT	3	5	6	-	-	11
13.5 - 15.0	Light grey to cement grey calcareous sand with pieces of calcareous sand stones		15.00	SPT	10	15	20	-	-	35
15.0 - 16.5	Calcareous clayey sand with calcareous sand stones		16.5	SPT	12	16	20	-	-	36
16.5 - 18.0	Grey to reddish, plastic, sticky calcareous silt to fine sand		18.0	SPT	20	25	30	-	-	55
18.0 - 19.5	Olive grey semi plastic stiff to sticky calcareous clayey silt		19.5	SPT	29	50	50	-	-	100
19.5 - 21.0	Olive grey semi plastic stiff to sticky calcareous clayey silt but more plastic		21.0	SPT	60	50	50	-	-	100
21.0 - 22.5	Light coloured somewhat dense sticky calcareous clayey silt		22.5	SPT	18	20	25	-	-	45
22.5 - 24.0	Light coloured dense sticky calcareous clayey silt The borehole was closed at 24.00m below GL on 8-2-05		24.0	SPT	20	22	30	-	-	52

NOTE: SOIL DATA IS BASED ON PRELIMINARY REPORT - FEB 2005.

REPORT NO:
RP 004 (A)

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PROJECT: SETHUSAMUDRAM SHIP CHANNEL PROJECT - DPR & EVALUATION OF EIA

PROJECT NO:
C1041202

TITLE: BORELOG - 11 AT ADAM'S BRIDGE

DATE: 18-02-05

MADE: SR



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FIGURE NO:
FD0514

REV:
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